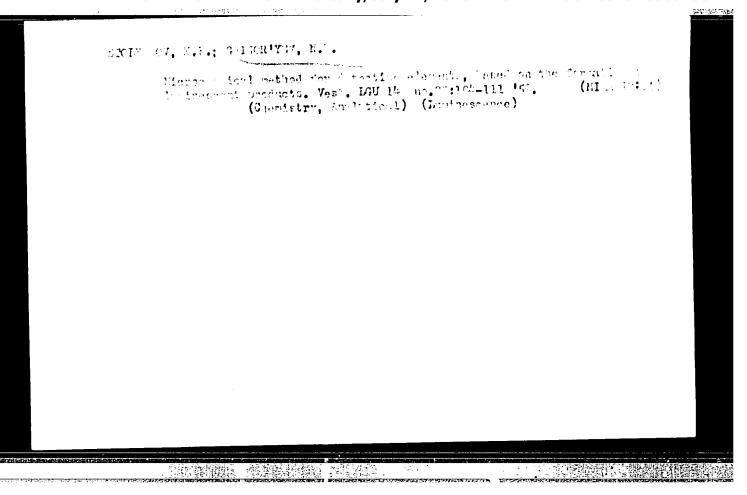
New Luminoscence Method of Microchemical Analysis SOV/75-14-4-22/30 (Crystallophosphoric) Communication 2. Detection of Tin

There is a separate description of the determination of tin in sulfidic substances and in alloys. There are 3 Soviet references.

ASSOCIATION: Loningradskiy gosudarstvennyy universitet im. A. A. Zhdanova (Leningrad State University imeni A. A. Zhdanov)

SUBMITTED: November 14, 1957

Card 4/4



STOLYAROV, K.P.; GRIGOR'YEW, M.W.

New microluminescence method of titrating small amounts of a substance in solutions. Determination of small amounts of zirconium. Vest.LGU 15 no.10:137-143 '60. (MIRA 13:5)

(Zirconium-Analysis)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516810

SHCHELKUNOV, Serafim Ivanovich; GRIGOR'INV. Nikolay Ivanovich; SUGLITSKIY, A.Ye., red.; RULEVA, M.S., tekhn.red.

[Methodological manual for practical studies on histology]
Metodicheskoe posobie k prakticheskim maniatiism po gistologii.
Leningrad, Gos.imd-vo med.lit-ry Medgim, Leningr.otd-nie, 1961.
129 p.

(HISTOLOGY--LABORATORY MANUALS)

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Card b/15	*behavelinor, ?e. A., sed <u>U.M. Catharezana</u> . [All:Thim glorify: Institute of Chemical Regeria]. Devertantion of Almandama by the Institutence Method in Onlythacce Bring a Righ Degree of Parity	hybricktors for A., and the Lenkinghammed Persystery machine in A. and the Line that the Line the article of the first faily further that cheaths residion (DLA) chains de Sizestiffs for several facilitate of the Michael Lagonts (DLA). Now Luminscence Respect for the Devermination of Magnesium	Derkins, T. Y., and A. Y. Drobeckerko. Fluorismitric hyperkanium of horen in Salviinn by News of North bith a Sensitive Fluorumeter of New Design	** Enderior, D. P., and R. E. Kornhern. Increasing the Sensitivity and Reproductibility of Fluorescence Analysis of Salaritons		Stolyange, E. P., and J. E. Grieger Mr. [Anthor which produces from present of the lens of A. A. Electron. Electronic for the series of the first and State University Lend A. A. Electron.]. Qualitative and State University London processes Analysis of Inorganic Lond 92	phosphares. There is a discussion of the contributions of Bordet phosphares in the contributions of Bordet appetables in the course of the per and a half preceding the conference. The articles of V. K. Matterer (p. 75) and of V. V. Patrilayer (p. 75) have been unablated between of their importance. No personalities are mentioned. Maference accompany most of the articles.	eans subode for the determination of urantum, mercury, segretum, shadows, borns, and other elements, as will as instructors are unloss for the disposed of alla concer and the determined of grippe virus, pulmopatic altroorgations, vi. The structural design of me instruments for landscences analysis is described. The enfortunes of translations are the boundary express of crystales.	continuat: The collection contains of papers read at the Rights Con- forence on Lunian stories, which took place 19-th October, 1379 (pain) of nonference and quest. These studies are concerned principally eith the development of now luniantence methods for qualitative and qualitative chemical analysis, and with the applications of land amongs to malitate and holdstell presents. They distributed the	NUMPOR: This callection of articles is inverted for country was repre- letted statements in subscalar luminoscopes, and for acterities per- sonal concerned with applications of this and related percorna in research in the life actences.	Omegal Edg. B. A. Bortserich; Edg. L. Timofeyer; fech. Edg. B. Siderho.	Sponsoring Agency: Akademiya sauk Belorusskoy SSR. Institut ficial.	Bowenchantye po lymminestmentell, 8th, 1257	PRACE I DOCK EXPLOSTATION SOT/ATT )	
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S/051/61/010/006/001/002 E032/E314

24.3500 (1137,1138, 1147)

AUTHORS: Grigor'yev, N.N. and Kulyupin, Yu.A.

由經濟物學的一種質問行為於

TITLE: Some Results of a Study of the Process of Phosphor

Deterioration During Electroluminescence

PERIODICAL: Optika i spektroskopiya, 1961, Vol. 10, No. 6, pp. 780 - 786

TEXT: Roberts (Ref. 1) and Thornton (Ref. 2) have suggested that the reduction in the light yield of a phosphor during luminescence is due to changes in the properties of the phosphor itself. Roberts considers that there is a reduction in the number of luminescence centres while Thornton suggests that this number remains constant but the electrical properties of the phosphor undergo a change. The present authors have carried out experiments to elucidate the mechanism responsible for the deterioration of phosphors. The apparatus employed is illustrated schematically in Fig. 1. The two transparent electrodes 1 and 2 can be rotated relative to each other with the gap between them remaining constant at about 50  $\mu$ . Fine crystals of the phosphor are placed in this gap in the Card 1/6

S/051/61/010/006/001/002 E032/E314

Some Results of ....

form of a suspension in a liquid dielectric. Rotation of the electrodes gives rise to a rotation of some of the fine crystals so that the luminescence of all parts of these crystals can be eventually observed. Only the central region of the suspension is observed by means of the stop 6. In this way, the effect of new particles entering the field of view is excluded. The Phosphor was ZnS-ZnO-Cu, Al, Cl suspended in silicon oil. In order to accelerate the deterioration process, the phosphor was excited by an electric field of  $5 \times 10^4$  V/cm at a frequency of 15 kc/s. The luminescence was

 $5 \times 10^4$  V/cm at a frequency of 15 kc/s. The luminescence was recorded by the photomultiplier 9, whose output was fed into the microammeter 10 (M-95) and the oscillograph 11 (3HO-1 (ENO-1)). The photoluminescence was excited by light with  $\lambda_{max} = 3$  650 R and was recorded in the green band

with the aid of the crossed filters 5. The type NFK-2 (PRK-2) lamp was used as the source of light 3. It was first established that the deterioration process is largely independent of the surrounding dielectric and is a function

Card 2/6

S/051/61/010/006/001/002 E032/E314

Some Results of ....

Card 3/6

of the properties of the phosphor only. Fig. 2 shows the relative change in the intensity of the electroluminescence (green band) of the phosphor during a periodic rotation of the electrodes (Curve 1 - 400 c.p.s., 240 V; Curve 2 -15 kc/s, 240 V; Curve 3 - 15 kc/s, 100 V; the time is plotted in hours along the horizontal axis). The phosphor deterioration can clearly be seen in Fig. 2, although a partial recovery of the light yield during the rotation of the electrodes is also apparent. This is said to suggest that the basic process of deterioration occurs not in the entire crystal but in certain parts of it. All the experiments appear to confirm the localised character of the deterioration and there is evidence that the deterioration occurs at the surface. Calculations of the intensity of photoluminescence as a function of time show that it should decrease by 22% over 150 hours (Fig. 3, Curve 1). On the other hand, the measured intensity is found to be constant (Curve 3, Fig. 2). From this, it is concluded that the luminescence centres remain unaltered during the deterioration process since the above

21105

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Some Results of ....

calculation was based on the Roberts hypothesis. The phenomenon of electroluminescence is very dependent on the presence of a positive space-charge region which appears under the action of the external field. It is suggested that the spreading of the space-charge region may be responsible for the reduction of the field in the crystal and lead to a reduction in the number of electrons capable of taking part in the luminescence and their effectiveness in this process, i.e. it will give rise to a reduction in the intensity. This may give a qualitative explanation of the variation of the intensity with voltage and frequency, the changes in the form of brightness waves and the changes in the luminescence spectrum which occur in the phosphor during the deterioration process. The reason for this spread of the space-charge region is not very clear although it is probably associated with the appearance of new local capture levels whose formation may be affected by the surrounding

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### "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

Some Results of ....

21105 \$/051/61/010/006/001/002 E032/E314

medium. Acknowledgments to M.V. Fok and V.V. Antonov-Romanovskiy for suggestions and discussions and to R.M. Medvedeva, A.N. Savin for assistance in this work. There are 6 figures, 1 table and 11 references: 5 Soviet and 6 non-Soviet.

SUBMITTED:

July 11, 1960

Card 5/6

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

STOLYAROV, K.P.; GRIGOR'YEV, N.N.; CHEN' GO-LYAN [Ch'en Kuo-liang]

Microphotometric titration of substances in the ultraviolet with end-point recording. Report No. 1: Design of a microtitrimeter and determination of iron. Zhur. anal. khim. 16 no. 1:4-7 Ja-F 161.

1. A.A. Zhdanov Leningrad State University.

(Microchemistry) (Iron—Analysis)

(Titrimeters)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516810

THE CONTRACTOR OF THE PARTY OF

22183 S/048/61/025/004/032/048 B117/B212

24.3500 AUTHORS:

Grigor'yev, N. N. and Kulyupin, Yu. A.

TITLE:

Several results obtained from investigations of the destruction process of luminophors during electroluminescence

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25, no. 4, 1961, 526-527

TEXT: The present paper was read at the 9th Conference on Luminescence (crystal phosphors). The authors have investigated the destruction process of ZnS.ZnO-Cu,Al,Cl luminophors, according to the operation time. The phosphorus mixed with silicon oil was in a capacitor, which construction made it possible to change the location of the working particles by keeping the excitation and observation conditions constant. This made possible a strong destruction of the phosphorus in each crystal volume and it was accompanied by a fast drop of brightness. The brightness of the photoluminescence did not change, a drop of ~22% has been expected. This value had been found by assuming that a strong destruction would take place in ~5% of the crystal volume during each semiperiod of the field.

X

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Several results obtained ...

Under the test conditions given the value of 5% has not been to high. This circumstance leads to the conclusion that the luminescence properties of the phosphorus destructed during electroluminescence will not change. Since the ratio of the light blue to the green band intensity will increase during destruction it can be assumed that the phosphorus but not the surrounding dielectric will be affected. The partial regeneration of the brightness observed when changing the position of the working particles points to a local character of the destruction. Probably, it will take place there, where due to applying an electric field to the crystal the formed positive space charge will be concentrated. The brightness drop of the electroluminescence may be explained as follows: The space charge will expand due to a decrease of the density and this is accompanied by a decrease of the internal field of the crystal. This explanation is also valid for the change of frequency characteristics and the dependence of the brightness from the voltage. Due to the change of the space charge region the characteristic of the brightness has to change also. It has been observed that the ratio of the variable brightness wave components to the constant component and also the ratio of the additional maximum of the brightness wave to the principal maximum will

Card 2/3

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Several results obtained ...

increase. This agrees well with the hypothesis established. And, to a certain degree, the hypothesis also shows no discrepancy for the different behavior of light blue and green electroluminescence bands. This behavior is responsible for the fact that the phosphorus becomes green during its destruction. The cause for the expansion of the space charge could not be cleared. [Abstracter's note: Essentially complete translation].

X

Card 3/3

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

STOLYAROV, K.P.; GRIGOR'YEV, N.N.; SOLOV'YEVA, L.A.

New microluminescence method for the titration of small amounts of substance in solutions. Report No. 2: Detartions

of substance in solutions. Report No.2: Determination of small amounts quantities of strong acids in solution. Zhur.anal.khim. 17 no.1: (MIRA 15:2)

1. A.A.Zhdanov Leningrad State University.
(Acids) (Luminescence)

STOLYAROV, K.P.; GRIGOR'YEV, N.N.

New microluminescence method of titration of small amounts of a substance in solutions. Report No.3: Determination of aluminum. Zhur'analakhim. 17 no.5:565-567 Ag '62. (MIRA 16:3)

1. A.A.Zhdanov Leningrad State University.
(Aluminum—Analysis) (Luminescence)

GRIGOR'YFY Nikolay Nikolayevich: SEVERINOV, Sergey Stapanovich;
IVANOVA, Z.N., red.; ISUPOVA, N.A., tekhn. red.

[The resort of Yevpatoriya; therapy and rest at the resort of Yevpatoriya] Kurort Emptorities land in the resort

of Yevpatoriya] Kurort Evpatoriia; lechenie i otdykh na
Evpatoriiskom kurorte. Simferopol', Krymizdat; 1963. 130 p.
(MIRA 16:10)
(YEVPATORIYA—HEALTH RESORTS, WATERING PLACES, ETC.)

GRIGOR'YEV, N.N., insh.; DROZHILOV, L.A., inzh.; MERLIN, A.V., inzh.

Sinter cooling in basin coolers. Stal' 23 no.5:385-388 Ny.

'63.

(Sintering)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516810

J. 36258-65 EWI (m)/EPF(n)-2/EWP(t)/EWP(b) Pu-4 IJP(c) JD/WW/JG/GS ACCESSION NR: AT5007806 8/0000/64/000/000/0007/0015

AUTHOR: Solov'yeva, L. A.; Stolyarov, K. P.; Grigor'yev, N. N.

TITLE: The problem of determining small amounts of rirconium by luminescence titration

SOURCE: Leningrad. Universitet. Metody kolichestvennogo opredeleniya elementov (Methods for the quantitative determination of elements). Leningrad, Izd-vo Leningr. univ., 1964, 7-15

TOPIC TAGS: zirconium determination, luminescence titration, zirconium ore, pentahydroxyflavone, interfering cation, ore analysis

ABSTRACT: Optimal conditions for the luminescence-titration of small amounts of zirconium in ore, the effect of accompanying cations and the composition of the luminescent complex were studied experimentally. The green-luminescent compound formed with morin (pentahydroxyflavone) was titrated with sodium fluoride and the decreasing luminescence was measured by a galvanometric technique. Spectrophotometric determination of optical densities was used to establish the composition of the complex. Maximum accuracy was reached in 1:1 mixtures of 5.2 N perchloric acid with 1:1 dilute hydrochloric acid, permitting determination of 229 - 6.948

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ACCESSION NR: AT5007806

Zr with 0 = 4.3% relative error, whereas lower accuracy was achieved in 4 N H<sub>2</sub>SO<sub>4</sub>. Determination of Zr is feasible at 1:10 Zr/Nb ratios although niobium decreases the luminescence of the complex; aluminum does not hinder the determination of Zr under experimental conditions; copper decreases the accuracy, and ferric ions must be reduced or removed; Mn II does not impede the analysis at 1:10 Zr/Mn ratios. Zirconium in 0.22 and 0.53% concentrations in ore was determined by melting with alkali carbonate, melting the residue with potassium pyrtsulfate, dissolving in 10% H<sub>2</sub>SO<sub>4</sub>, vaporization, dilution with water, precipitation with ammonia after adding aluminum chloride as a collector compound if very small amounts of Zr are present, and determination of Zr in the dissolved precipitate by luminescencetitration. The optical density measurements indicated that the composition of the complex corresponds to 1:2 zirconium-morin ratios. "The ore samples were provided by the TaKhL VSEGEL." Orig. art. has: 6 figures and 7 tables.

ASSOCIATION: none

SUBMITTED: 28Sep64

ENCL: 00

SUB CODE: 104 .GC

NO REF SOV: 003

OTHER: 000

Card 2/2 .10

### "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

EWI(m)/EWP(t)/EWP(b) IJP(c) JD/JG/C L 36257-65 ACCESSION NR: AT5007807 5/0000/64/000/000/0016/0021 AUIHOR: Stolyarov, K. P.; Grigor yev, N. N. TITLE: Micro-luminescence method for determining beryllium SOURCE: Leningrad. Universitet. Metody kolichestvennogo opredeleniya elementov (Methods for the quantitative determination of elements). Leningrad, Izd-vo Leningr. univ., 1964, 16-21 TOPIC TAGS: beryllium determination, luminescence titration, ore analysis, pentahydroxyflavone, sulfosalicylic acid, interfering cation, acetylacetone ABSTRACT: A method was developed for determining small amounts of beryllium in ore by micro-luminescence titration. A beryllium-morin (pentahydroxyflavone) complex, showing yellow-green fluorescence at 365 maafter ultraviolet irradiation. was titrated with the best results with sodium sulfosalicylate solutions at pH 13 in solutions buffered with glycine. A microtitrimeter, photomultiplier, and galvanometric technique were used, which have been described in previous studies. From 94 to 0.094.4g beryllium were determined with 2.1-10.5% relative error, respectively. The effects of zinc, calcium, barium or aluminum on the results are prevented by complexing with Trilon B, whereas iron, manganese and chromium

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ACCESSION NR: AT5007807

must be removed before determining baryllium. Good results were obtained by extracting baryllium as the acetylacatona complex with carbon tetrachloride at pH 9, or by removal of iron from hydrochloric acid solution by extraction with athyl ether and coprecipitation of beryllium with calcium as the carbonate. The methods were used for determining 0.059 and 0.016% BeO with 0-i2.4% relative error in basic pegmatite and in silicate rock. "Ta Na Ushakoya took part in the work." Orig. art. has: 4 figures and 5 tables.

ASSOCIATION: none

SUBMITTED: 28Sep 64

ENCL: 00

SUB CODE: MM, GC

NO REF SOV: 005

OTHER: 000

Card 2/2

VREDEN-KOBETSKAYA, T.O.; GEORGOBIANI, A.N.; GCLUBEVA, N.P.;
GRIGOR'YEV, N.N.; ZHEVANDROV, N.D.; MORGENSHTERN, Z.L.;
PETUKHOVA, M.S.; RABINOVICH, N.Ya.; FOK, M.V.;
KHAN-MAGOMETOVA, Sh.D.; ANTONOV-ROMANOVSKIY, V.V., doktor
fiz.-mat. nauk, otv. red.

[Luminescence; a bibliographic index for 1947-1961] Liuminestsentsia; bibliograficheskii ukazatel, 1947-1961. Moskva, Nauka. Vol.2. 1964. 378 p. (MIRA 18:4)

1. Akademiya nauk SSSR. Sektor seti spetsial'nykh bibliotek.

EWT(1)/EWT(m)/T/EWP(t)/EWP(b)/EWA(h) IJP(c) JD/AT
UR/0185/65/010/008/0844/0853 ACCESSION NR: AUTHOR: Hryhor yev, M. M. (Grigor yev, N. N.) TITIE: Effect of majority carriers on the mobility of minority carriers in semi--21.411.35 conductors SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 8, 1965, 844-853 TOPIC TAGS: semiconductor carrier, hole mobility, electron mobility, germanium ABSTRACT: The author calculates the mobility of the minority carriers for an atomic semiconductor with isotropic parabolic energy bands in the region of impurity conductivity, with allowance for the scattering of carriers by ionized impurities. The Boltzmann equation was solved by a method due to I. M. Dykman and P. M. Tomchuk (FTT v. 6, no. 5, 1964 and earlier papers). The carrier-carrier interaction was included by means of the Landau formula. The mobility concentration of minority carriers in n- and p-type germanium was calculated as a function of the electric field at a lattice temperature 77K for concentrations of the majority carrier densities 1016 and 1017 cm 3. The mobility of the minority carriers increases initially with increasing electric field and then begins to decrease. The temperature dependence of the mobility is plotted and discussed. The mobility of the minority carriers is shown to be a good deal less than that calculated by the Card 1/2 09011020

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AP5020689 ACCESSION NR:

ordinary scheme when the entrainment of the minority carriers by the flux of the majority carriers is not taken into account. The accuracy of the calculation was checked by calculating the mobility of the minority carriers with one, two, and in one case three parameters. "I thank I. M. Dykman for constant attention and detailed discussions of the work." Orig. art. has: 19 formulas and 6 figures.

ASSOCIATION: Instytut napivprovidnykiv AN URSR [Institut poluprovodnikov AN UkrSSR] (Semiconductor Institute, AN UkrSSR)

SUBMITTED: 29Jan65

ENCL:

SUB CODE: 88

NR REF SOV:

OTHER: 003

ACC NR. AP 7001 /12

SOURCE CODE: UR/0048/66/030/012/1927/1929

AUTHOR: Grigor'yev, N. N.; Dykman, I.M.; Tomchuk, P.M.

ORG: none

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TITLE: Emission of hot electronssfrom a polar semiconductor having a nonparabolic dispersion law [Report Twelfth All-Union Conference on the Physical Fundamentals of Cathode Electronics held at Leningrad, 22 - 26 Oct. 1965]

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 12, 1966, 1927-1929

TOPIC TAGS: thermionic emission, electron emission, electric field, semiconducting material, indium compound, antimonide, mathematic physics

ABSTRACT: The authors discuss thermo-electron emission from a polar semiconductor in which the carriers have been heated by an applied electric field. An approximate expression for the electron energy distribution in such a semiconductor is written but not derived. This expression is valid for an arbitrary dispersion law relating the electron energy E and momentum p, and in addition to its dependence on the dispersion law it depends on the lattice temperature, the optical phonon temperature, and the ratio F/F<sub>0</sub> of the electric field strength F to a certain field strength F<sub>0</sub> that was introduced by H.Frolich and B.V.Paranjape (Proc. Phys.Soc. B69, 21 (1956)) and has a value of some 300 or 400 V/cm for Insb. This distribution function was employed to calculate the thermo-electron emission current for the case when the dis-

Card 1/2

AP 7001722 ACC NR: persion law is  $p^2/2m = E(E + E/G)$ , where m is the effective mass of the electron at the bottom of the band and G is the energy width of the forbidden gap. This dispersion law is believed to be valid for InSb. It is found that when the work function is greater than thee forbidden gap width, the nonparabolicity of the dispersion law results in an appreciable increase of the Richardson current. The application of an electric field greatly increases the thermo-electron emission current over the Richardson value. This is illustrated by a curve showing the thermo-electron emission current as a function of the applied electric field, the curve being calculated with parameter values appropriate to InSb with a reduced work function of 1.1 eV. An electric field of strength Fo increases the emission by several orders of magnitude over the no field (Richardson) value, and with fields that might be achieved by pulsing, the emission could be enhanced by as much as 10 orders of magnitude. Orig. art. has: 5 formulas and 1 figure. OTH REF: 001 ORIG. REF: 005 SUBM DATE: SUB CODE:

Card 2/2

# GRIGOR'YANTS, N.N. Chemical composition and nutritive value of Ashkhabad market milk. Oig. i san., no.8:49 Ag '54. (MIRA 7:9) 1. Iz Respublikanskoy sanitarno-epidemiologicheskoy santsii Ministerstva zdravookhraneniya Turkmenskoy SSR. (ASHEHABAD-MILK--ANALYSIS AND EXAMINATION) (MILK--ANALYSIS AND EXAMINATION--ASHEHABAD)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

USSR

Chemical composition of fermanted camel milk "chal."

N. N. Grigoryants (Ministry Health, Turkmen. 8.S.R.),

7377377 7263193 13, No. 4, 41-2(1954).— Camel milk and
its fermented product contain on an av. of 10 detra. fat 4.8
and 4.8, milk suger 2.75 and 1.32, fat-free fry mintance 8.2
and 6.8, ash 0.86 and 0.76, and RtOH 0 and 1.1%; vitamin

C 5.0 and 4.8 mg. %; acidity (in Thorner degrees T. X.

0.009 = % lactic acid.)) 18 and 128; and sp. gr. 1.035 and
1.010, resp.

R. Wierbick!

GRIGOR'YANTS, N.N.; SOKOLOVA, T.A.; YAKODINSKAYA, S.G.

Ascorbic acid content of vegetables and grapes in the Turkmen S.S.R. Izv. AN Turk. SSR no.5:77-80 '59. (MIRA 13:3)

1.Ashkhabadskiy institut epidemiologii i gigiyeny Ministerstva zdravookhraneniya Turkmenskoy SSR. (Ascorbic acid) (Turkmenistan-Vegetables) (Turkmenistan-Grapes)

GRIGOR'YANTS, N.N.; SOKOLOVA, T.A.; YAGODINSKAYA, S.G.

Characteristics of the mineral composition of vegegable food products in the Turkmen S.S.R. Izv. AN Turk. SSR.Ser. biol. nauk no.1:49-53
'61.

1. Turkmenskiy gosudarstvennyy meditsinskiy institut.
(TURKMENISTAN—PLANTS, DIELE—CHEMICAL ANALYSES)
(MINERALS IN FOOD)

# GRIGOR'YANTS, N.N.

Some data on natural radioactivity of food products. Vop.pit. 21 no.3:89-90 My-Je '62. (MIRA 15:10)

1. Iz Turkmenskogo meditsinskogo instituta, Ashkhabad. (ASHKHABAD--FOOD) (RADIOACTIVITY)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

GRIGOR'YANTS, N.N.

Gopper content in food products of the Turkmen S.S.R. Isv. AN
Turk.SSR. Ser.biol.nauk no.2131-34 '63. (MIRA 1615)

1. Turkmenskiy meditsinskiy institut.
(TURMENISTAN—FOOD—COMPOSITION)
(COPPER—PHYSIOLOGICAL RFFECT)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516810

### GRIGOR'YANTS, N.N.

Strontium content of food products in the Turkmen S.S.R. according to spectrum analysis. Vop. pit. 22 no.6:63-65 N-D '63. (MIRA 17:7)

1. Iz kafedry meditsinskoy khimii (ispolnyayushchiy obyazannosti zaveduyushchego N.N. Grigor'yanta) Turkmenskogo meditsinskogo instituta, Ashkhabad.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516810

GRILLORIYEV, Nikolay Nikolayevich; SEVFRINOV, Sergey Stepanovich; BAYEV, Yevg., red.

[Yevpatoriya, the city of sun; a brief essay on the history of the town. A device for guests at Yevpatoriya health Resort. For whom treatment at Yevpatoriya is recommended] Evpatoriia, gorod solntsa; kratkil rasskaz ob istorii goroda. Sovety otdykhaiushchim na evpatoriiskom kurorte. Komu rekomendovano lechenie v Evpatorii. Simferopoli, Izd-vo "Krym," 1965. 140 p. (Mina 18:11)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516810

### "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

L 20280-65 EVT (1)/EVG(k)/T/EWA(h) Pz-6/Peb IJP(c)/SSD/AFWL/ASD(a)-5/ESD(gs)/
ESD(t) AT

ACCESSION NR: AP5000676 S/0181/64/006/012/3705/3708

AUTHOR: Grigor'yev, N. N.

TITLE: Influence of the majority carriers on the mobility of minority carriers in semiconductors

SOURCE: Fizika tverdogo tela, v. 6, no. 12, 1964, 3705-3708

TOPIC TAK: carrier mobility, phonon scattering, germanium, impurity concentration, impurity scattering

ABSTRACI: A theoretical study was made of the minority carriers in a covalent semiconductor with isotropic energy bands in the extrinsic conduction region. It was assumed that these carriers interact with the majority carriers, ionized impurities and acoustical phonons, but not with optical phonons (low-temperature case). Boltzmann's transport equation was solved by the method of I. M. Dy\*kman and P. M. Tomchuk (FTT v. 2, 2228, 1960) and the notation used was identical with that in another paper of Dy\*kman and Tomchuk (FTT v. 6, 1388, 1964). The calculation was carried out specifically for n- and p-type Ge with the majority carrier we sity of 1016 and 1017 cm<sup>-3</sup> (this density was assumed to be equal to the

Card 1/2

L 20280-65

ACCESSION NR: AP5000676

ionized impurity concentration) at 77K (lattice temperature). It was found that in weak electric fields (E) the minority carrier mobility  $\mu_{\min n}$  was low (due to the drag by the majority carriers). In such fields  $\mu_{\min n}$  rose with increasing fields because the minority carriers were scattered mainly by the majority carriers and ionized impurities, and for these scattering mechanisms  $\mu_{\min n}$  rose with the carrier temperature (and therefore with the field). In strong fields  $\mu_{\min n}$  decreased with increasing fields because the minority carriers were scattered mainly by phonons, and for this type of scattering  $\mu_{\min n}$  decreased with increase of the carrier temperature, which was a linear function of the field. Orig. art. has: 2 figures and 1 formula.

ASSOCIATION: Institut poluprovodnikov AN UkrSSR (Institute of Semiconductors AN UkrSSR)

SUBMITTED: 09May64

ENCL: 00

SUB CODE: SS

NR REF SOV: 003

OTHER: 000

Card 2/2

AUTHOR: Grigor'yev, N.P. 007-132-58-8-12/16

TITLE: New Wodel of a Mine Compace (Novaya model' gornogo kompasa)

FURIODICAL: Razvedka i okhrana nedr, 1958, Nr 8, pp 55-56 (USUR)

ABSTRACT: New model of a compass for use in mines is described. The description is taken from the German periodical "Zeitschrift

fuer angewandte Geologie" for 1958. There are 3 photos.

ASSOCIATION: (V G F)

1. Compasses--Design 2. Compasses--Applications

Card 1/1

AUTHOR:

Grigor'yev, N.P.

007/132-59-1-15/15

TITLE:

The Isotope Analysis as a Possible Means of Prospecting

(Izotopnyy analiz kak vozmozhnoye sredstvo poiskov)

PERIODICAL:

Razvedka i okhrana nedr, 1959, Nr 1, p 56 (USSR)

ABSTRACT:

The author reports on the works of American scientists -Engel, Epstein and Clayton - on new methods of prospecting. Notes on their work were published in the "Chemical Engineering and Mining Review, 1957, Vol 30, Nr 2, and

other foreign periodicals.

ASSOCIATION: VGF

Card 1/1

TKACHEVA, R.E.; ORORODNEVA, V.I.; DUBOVSKAYA, M.V.; MARKOVA, Ye.I.;

CRIGOR'YEV, N.P.; POPOVA, A.I.; ROZIN, M.S.; OPALEV, A.F.

Prinimali uchastiye: ANTONOVA, L.N.; MALAYEV, A.A.;

KIRILLOVA, L.D.; SOKOLOVSKAYA, Ye.Ya., red.izd-va; HYKHOVER, N.A.,

red.; GUROVA, O.A., tekhn. red.

[Concise handbook on the mineral resources of capitalist countries; Asia] Kratkii spravochnik po Lineral'nym resursam kapitalisticheskikh stran; Aziia. Pod red. K.A.Bykhovera, K.V.Dubovskoi i A.F.Opaleva. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1961. 124 p. (MIRA 15:2)

(Asia—Mines and mineral resources)

公子》的基础是编辑的语

TKACHEVA, R.E.; OCORODNEVA, V.I.; DUBCVSKAYA, M.V.; MARKOVA, Ye.I.; CRIGOR YEV, N.F.; POPOVA, A.I.; ROZIN, M.S.; OFALEV, A.F.; Prinimali uchastiye: ANTONOVA, L.N.; MALAYEV, A.A.; BYKHOVER, N.A., red.; MAKEYEV, V.I., red. izd-va; GUROVA, O.A., tekhm. red.

[Concise handbook on mineral rescurces in capitalist countries; America] Kratkii spravochnik po mineral'nym resursam kapitalisti-cheskikh stran; Amerika. Pod red. N.A.Bykhovera, M.V.Dubovskoi i A.F.Opaleva. Moskva, Gosgeoltekhizdat, 1961. 154 p.

(MIRA 15:6)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy geologicheskiy fond. (America-Mines and mineral resources)

# GRIGOR YEV, N.P.

Production and reserves of helium in the U.S.A. Razved. i okh. nedr 26 no.6:58-59 Je 162. (MIRA 15:7)

1. Vsesoyusnyy geologicheskiy fond. (United States -- Helium)

TKACHEVA, R.E.; OCORODHEVA, V.I.; DUBOVSKAYA, M.V.; MARKOVA, Ye.I.;
CRIGOR'YEV, N.P.; POPOVA, A.I.; ROZIN, M.S.; OPALEV, A.1.;
KIRILLOVA, L.D.[translator]; BYKHOVER, N.A., red.;
SOKOLOVSKAYA, Ye.Ya., red. izd-va; BYKOVA, V.B., tekhn. red.

[Brief manual on the mineral resources of capitalist countries; Europe]Kratkii spravochnik po mineral nym resursam kapitalisti-cheskikh stran; Evropa. Pod rod. N.A.Bykhovera, M.V.Dubovskoi i A.F.Opaleva. Moskva, Gosgeoltekhizdat, 1962. 118 p. (MIRA 15:8)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy geologicheskiy ford. (Europe, Western-Mines and mineral resources-Handbooks, manuals, etc.)

TKACHEVA, R.E.; OGORODNEVA, V.I.; DUBOVSKAYA, M.V.; MARKOVA, Ye.I.;

<u>GRIGOR'YEV, N.P.</u>; POPOVA, A.I.; ROZIN, M.S.; OPALEV, A.F.;

Prinimali uchastiye: ANTONOVA, L.N.; MALAYEV, A.A.;

BYKHOVER, N.A., red.; NEKHODTSEV, N.A., red.; PANOVA, A.I.,

red.izd-va; IVANOVA, A.G., tekhn. red.

[Brief manual on the mineral resources of capitalist countries; Africa, Australia and Oceania]Kratkii spravochnik po mineral'-nym resursam kapitalisticheskikh stran; Afrika, Avstraliia i Okraniia. Moskva, Gosgeoltekhizdat, 1962. 197 p.

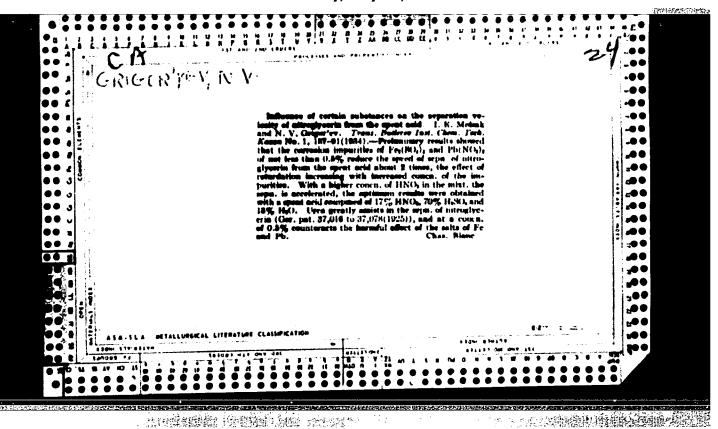
(MIRA 16:3)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy geologicheskiy fond.
(Africa-Mines and mineral resources)
(Australia-Mines and mineral resources)
(Oceania-Mines and mineral resources)

GRIGCRIYEVA, N. R.

GRIGCR'YEVA, N. R. -- "Material on the Pathology of the Cardiovascular System in Diphtheria among Children." Khar'kov Medical Inst. Khar'kov, 1955. (Dissertation for the Degree of Candidate in Medical Sciences).

So.: Knizhnaya Letopis', No. 2, 1956.



15 (2) AUTHORS:

Sidelev, N. S., Grigor'yev, N. V.

SOV/131-59-9-4/12

TITLE:

Mechanized Discharge and Conveyance of Fire-clay

PERIODICAL:

Ogneupory, 1959, Nr 9, pp 401-402 (USSR)

ABSTRACT:

In the fire-clay section of the Semiluki Works of Refractories formerly 12 workmen were occupied with the transportation of fire-clay by means of tipping trucks. In 1958 a team of efficiency experts had together with the design office of the work elaborated a project for the mechanization of the discharge and the conveyance of the fire-clay and used for this purpose a conveyor consisting of plates (Fig 1). The fire-clay is transported from the bunkers of the shaft furnaces to the metal plate conveyors, and then on to a collecting rubber conveyor belt (Fig 2). By means of a distributing conveyor belt the fire-clay is then transported to the respective bunkers. Among the 16 shaft furnaces 10 are mechanized at the time being, whereas the remaining fire-clay is provisionally discharged and removed by hand. Starting and stopping of the conveyor belts is done by remote-control. By the mechanization of the discharge and the conveying of the fire-clay more than 200000 Roubles could be saved, and heavy manual labour was eliminated. There are 2 figures.

Card 1/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

Mechanized Discharge and Conveyance of Fire-clay

SOV/131-59-9-4/12

ASSOCIATION:

Semilukskiy ogneupornyy zavod (Semiluki Works of Refractories)

Card 2/2

6- RISOF YOU. IN. V.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 544 - I

BOOK

Call No.: AF620011

[See: Orig. Agency & Purpose]

Author: GRIGOR'YEV, N. V. [See: Orig. Agency & Purpose] Full Title: COMPUTATION OF CRITICAL R.P.M. OF MULTI-SUPPORTED ROTORS

Transliterated Title: Raschet kriticheskikh chisel oborotov

mnogoopornykh rotorov

PUBLISHING DATA

Originating Agency: Academy of Sciences, USSR. Institute of Machine Design. Poperechnyye kolebaniya i kriticheskiye skorosti (Transverse

Vibrations and Critical Speeds). First Collection

Publishing House: Academy of Sciences, USSR

No. pp.: 29 (154-182) No. of copies: 3.000 Date: 1951

Editorial Staff

Responsible Editor: Serensen, S. V., Active Member, Academy of

Sciences, Ukrainian S.S.R.

FURPOSE: This work is one of the seven (AID 540 - 546) which were

discussed in a seminar on vibrations in the Institute of Machine

Design, and is reprinted for its practical interest.

TEXT DATA

Coverage: In the introduction the author refers to the classical method, sometimes called "natural method", of determining the critical RPM of a revolving shaft carrying n disks, discussed by A. N. Krylov (see his Collected Works [vol. X, 1948]) and further

Raschet kriticheskikh chisel oborotov mnogoopornykh rotorov AID 544 - I

developed by E. B. Luntz and V. A. Sudinin. He introduces a method of successive approximations, which allows the determination of critical RPM with adequate engineering accuracy even after the second approximation. He then gives: the fundamentals of his method; the determination of critical RPM, when the revolving shaft is made fast at the ends; special cases of fastening the ends with corresponding equations of frequencies; gyroscopic moment of a cantilever shaft; rotors in gas turbines; revolving shaft with a disk in the middle spans; and multi-supported shaft with elastic supports in the middle parts. In conclusion the author says that in his method with the increase of a single support the computation is increased only by two simple calculations. The method is illustrated by two practical examples. The paper includes a number of diagrams and a table.

No. of References: Total 7 (1935-1948), all Russian

Facilities: None

2/2

Grigoryeu, N.U

124-1957-10-11258

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 12, (USSR)

AUTHOR: \_Grigor'yev, N. V.

TITLE: Dynamic Dampers for Critical Conditions of Turbine Rotors

(Dinamicheskiye dempfery kriticheskikh sostoyaniy

vrashchayushchikhsya rotorov turbomashin)

PERIODICAL: V sb.: Kolebaniya v turbomashinakh. Moscow, AN SSSR.

1956, pp 57-68

ABSTRACT: It is shown that the introduction of (linearly or non-linearly)

elastic elements into rotor bearings appears in many instances to be a useful measure toward the prevention of resonance conditions. Calculation methods are evolved for the elasticity of the bearings in the computation of the critical operating speed; a simple graphic method is offered for the calculation of the vibrational amplitudes of a system with a non-linearly elastic element during an otherwise stationary operating regime of the rotor; a condition is set forth which the introduction of a non-

linearly elastic element must satisfy if it is to limit the

development of a resonance condition.

Card 1/1 G. I. Nikolenko

### PHASE I BOOK EXPLOITATION SOV/5794

Grigor' yev, Nikita Vasil' yevich

Nelineynyye kolebaniya elementov mashin i sooruzheniy (Nonlinear Vibrations of Machine Parts and Structures) Moscow, Mashgiz, 1961. 254 p. Errata slip inserted. 7000 copies printed

Reviewer: V. K. Prokopov, Candidate of Technical Sciences; Ed.: A. N. Dokuchayev, Candidate of Technical Sciences; Ed. of Publishing House:
N. Z. Simonovskiy; Tech. Ed.: M. M. Peterson; Managing Ed. for Literature on the Design and Operation of Machines: Leningrad Department,
Mashgiz: F. I. Fetisov, Engineer.

PURPOSE: This book is intended for engineering and technical workers in machine-construction and construction industries. It may also be used by students in technical institutions of higher education.

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Card 1/01

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

Nonlinear Vibrations of Machine Parts (Cont.)

SOV/5794

COVERAGE: The book deals with nonlinear vibrations of beams, rotors, blades, and composite systems of the rotor-casing type. Critical regimes of shafts with nonlinear supports are discussed. The connection between technical and vibrational states of turbomachines is established, and methods of counteracting critical regimes and torsional vibrations are worked out. These methods are based on special features of nonlinear vibrations of elastic systems. No personalities are mentioned. There are 50 references: 46 Soviet, 2 English. and 2 German.

#### TABLE OF CONTENTS:

Introduction 3

Ch. I. Vibration of Beams Which Have Nonlinear Boundary Conditions 7 l. Free vibrations of beams

7

Card 2/9

UDODOY, Pavel Afanas'yevich, prof.; MATUSEVICH, Vladimir Mikhaylevich; CRICOR!YEV, Nikolay Vladimirovich

[Hydrogeochemical prospecting under conditions of partly covered geological structures in the Tom'-Yaya interfluve] Gidrogeokhimicheskie poiski v uslaviiakh poluzakrytykh geologicheskikh struktur Tom'-IAiskogo

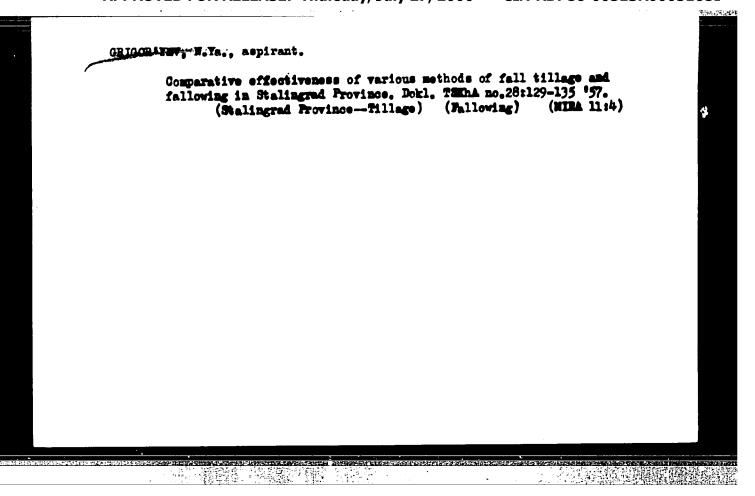
mezhdurechiis. Tomsk, Izd-vo Tomskog univ., 1965. 200 p. (MIRA 18:7)

TOTAL STATE OF THE STATE OF THE

GRIGOR'YEV, N. Ya. Cand Agr Sci -- (diss) "Comparative study of methods and depths of the basic cultivation of southern chernozem soils of Stalingradskaya Oblast," Mos, 1957. 20 pp (Mos Order of Lenin Agr Acad im K. A. Timiryazev), 110 copies (KL, 5-58, 102)

-29-

RATHERING CONTRACTOR OF THE PROPERTY OF THE PR



GRIGOR\*YEV, N.Ya., kand. sel'skokh. nauk

Effectiveness of various methods of fall tillage in the southern
Chernozem soils. Izv. TSKHA no.1:12-19 '63. (MIRA 16:7)

(Chernozem soils) (Tillage)

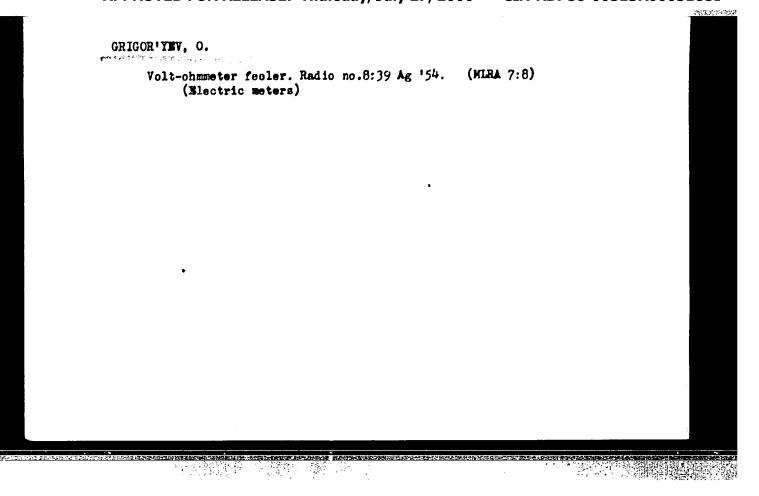
GRICOR'YEV, 0.

USSR/Electronics - Television Aug 52
Regulators, Voltage

"A Begulator for a Television Receiver,"
0. Grigor'yev

"Radio" No 8, p 58

Describes the construction of a 320-w, 110-v
ferroresonance voltage regulator for supplying the T-2 television receiver.



#### "APPROVED FOR RELEASE: Thursday, July 27, 2000

#### CIA-RDP86-00513R00051681

GRIGOR YEV, O.

107-5-44/54

AUTHOR:

Grigor'yev, 0.

TITLE:

Tone Control Unit. Experience Exchange

(Regulyator tona. Obmen opytom)

PERIODICAL: Radio, 1956, Nr5,p. 56 (USSR)

ABSTRACT: Three tone-control circuits are examined: (1) Change of depth of the negative

feedback circuit; (2) Passive fourpole circuit; (3) Potentiometer-type

deep negative-feedback circuit. Advantages are seen in the latter circuit as it permits of a wide range of control without distortion and insures steep

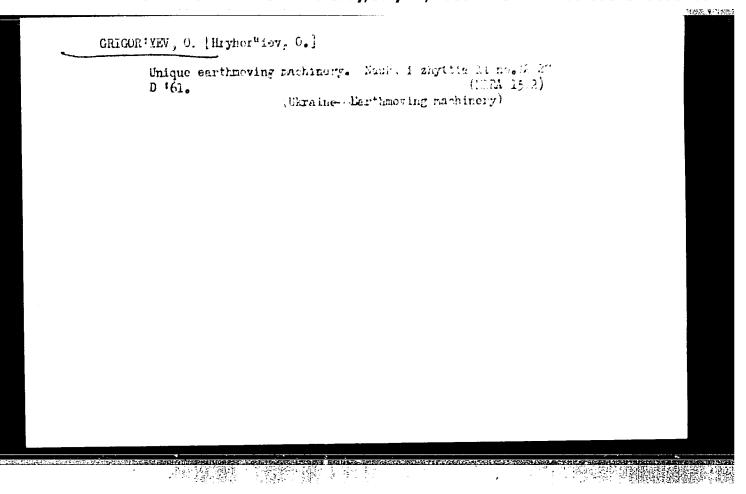
slopes of the frequency curve.

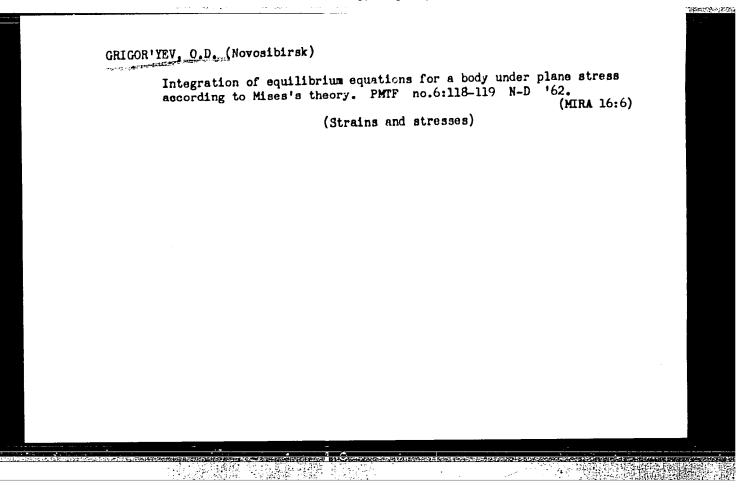
There are 2 figs in the article.

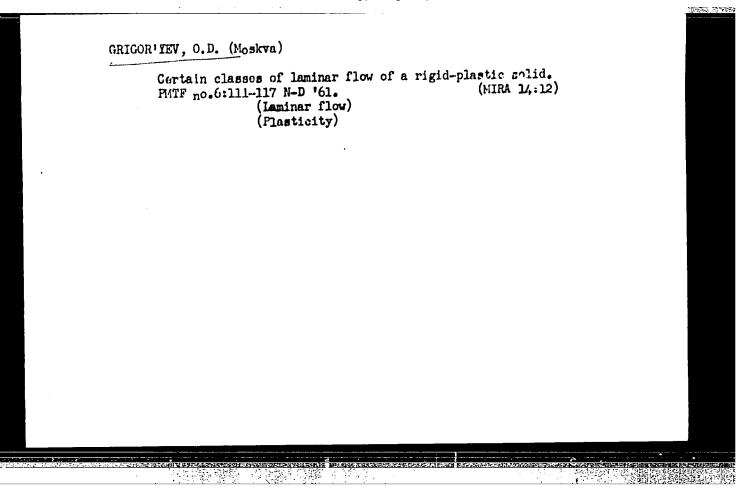
AVAILABLE: Library of Congress.

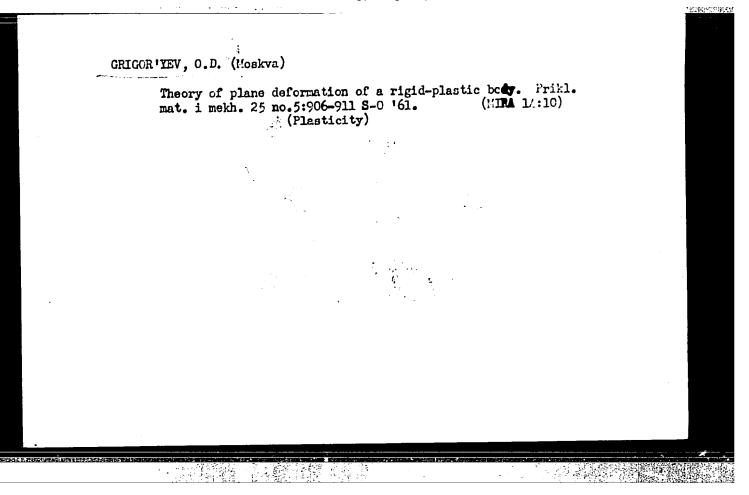
Card 1/1

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(









#### GRIGOR'YEV, O. D.

Dissertation defended for the degree of Candidate of Technical Sciences at the Joint Scientific Council on Physicomathematical and Technical Sciences; Siberian Branch

"Several Questions of the Theory and  $^{1\prime}$ roblem of Planar Deformation of Plastic Media."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

STREET AND RESERVED AS LINEAR TO THE PROPERTY OF STREET

GRIGOR'YEV, O.D. (Movosibirsk)

Condition of the positivity of energy dissipation in the laminar flew of a rigid-plastic body. PMTF no.1:164 Ja-W 162.

(MIRA 15:4)

(Plasticity) (Laminar flow) (Deformations (Mechanics))

\$/207/63/000/001/015/028 E191/E435

**AUTHOR:** 

Grigor'yev, O.D. (Novosibirsk)

TITLE:

Plane flow of an elasto-plastic medium in a well

lubricated long channel

PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki,

no.1, 1963, 115-117

The flow in a convergent, long, ideally smooth channel TEXT: At the channel exit both the velocities and the is considered. stresses are parallel in the channel axis, so that with a small exit aperture the boundary conditions can be approximately Using results of his previous work, the author satisfied. formulates the equations of plane flow of an elasto-plastic substance in the case of the streamlines coinciding with the trajectories of the large principal stress. It is shown that a certain coordinate grid satisfies the system of equations. mathematical derivation leads to a probability integral in the complex plane, which is well tabulated. The evaluation of the flow parameters and the channel profile are reduced to the The result of the extrusion computation of this integral. Card 1/2 ·

Plane flow of an elasto- ...

S/207/63/000/001/015/028 E191/E435

(drawing) forces along any trajectory orthogonal to the streamlines is given in a formula. There are 1 figure and 1 table.

SUBMITTED: June 5, 1962

Card 2/2

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

马克勒斯 有数字级 社会

GRIGOR'YEV, O.D. (Novombirsk)

Theory of straight-line discontinuity of stresses for a real laminar flow of a rigid-plastic body. PMTF no.5:158-159 S-O 163.

(MIRA 16:11)

L 16 $\pm$ 66 EWT(d)/EWT(m)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(l)/EWA(c) JD/HW

ACCESSION NR: AP5021587

UR/0286/65/000/013/0058/0058

.1.

AUTHOR: Grigor'yev. O. G. 445

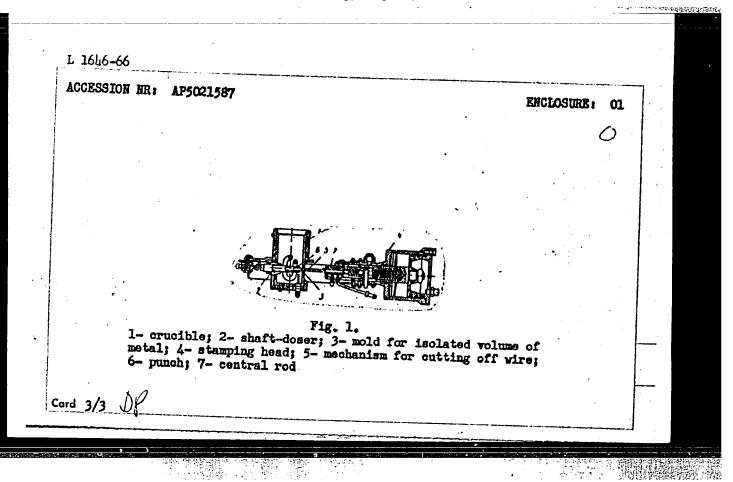
TITLE: Device for liquid stamping, Class 31, No. 172455

SOURCE: Byulleten' isobreteniy i tovarnykh snakov, no. 13, 1965, 58

TOPIC TAGS: liquid metal, metal stamping, metalworking machine

ABSTRACT: This Author Certificate presents a device for liquid stamping which includes a crucible with liquid metal a spring-loaded shaft-doser passing through the liquid metal, and a mold for the isolated volume of metal. To fabricate products of the glaze-signal fusible injection type, the shaft-doser is kinematically coupled to the stamping head mounted on a common base and to a mechanism for cutting off the wire (see Fig. 1 on the Enclosure). The doser is hollow and is provided with a punch telescopically mounted in it, which has an axial hole for feeding the wire. With the motion of the shaft-doser the punch moves in the axial direction into the mold for the isolated volume of metal, mounted in the crucible body. The stamping head includes spring-loaded rods telescopically mounted in the case. The central rod is the matrix bottom and ejector. The next rod surrounding the central rod forms the matrix wall with the approach of the Cord 1/3

ACCESSION NR: AP5021587  stamping head toward the crucible wall where the mold for the isolated metal is mounted. Orig. art. has: 1 diagram.										
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007/48-22-7-19/16 STEGAL: Irigor'gev, C. I., Muznetaov, B. S., Chimanskays, M. C., uticatov. I. A. Determination of the Matio L/K in Dy  $^{159}$  and  $^{165}$  and an astimation of the Transmutation Energies of Dy  $^{159}$  and  $^{159}$  and  $^{169}$  and  $^{169}$ . . . . 1.1.1: Duvestiya Akademii nauk SSSR, Seriya fizicheckaya, 1959. 701. 22, Nr 7, pp. 850-860 (USSR) The decay energy  $\mathcal{E}_0$  of radioactive isotopes, which are subjected to an electron capture can be determined by 5 different Ab TR.CT: methods. They are described. From the evidence given it is concluded, that the 5th method, that utilizing the ratio L/K is very convenient in the determination of small transmutation energies (< 200 ke7) in isotopes with a relatively single decay scheme, which do not exhibit a considerable converting cascade y-rediction. The application of this method is limit-0 rd 1/4 ed by the imperfections still inherent in the modern theory

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516810

30V/43-22-7-13/26

. etermination of the Ratio L/K in Dy  $^{153}$  and Tr  $^{165}$  and an Estimation of the Transputation Thergies of Dy  $^{159}$   $\longrightarrow$  To  $^{159}$  and Er  $^{165}$   $\longrightarrow$  Ho  $^{165}$ 

of K-capture and by the incomplete knowl due of the qualitative on quantitative rules governing the processes of the rearrangement of the clusters chell of the atom. L/K mas do-termined for two instores of rare earths, Dy 152 and Ze 165. both having a neutron difficit. Proceeding from the results the transmutation energies of the processes Dy 153 and Er 165 -- Ho 165 were estimated. A y-spectrometer combined with a proportional counter was used for measuring the energies and the intensities of an X-ray K- and L-radiation. The proportional counter (Nef 20) permitted to measure the  $\gamma$ - and A-ray radiation of small energies, which is quite impossible with other ethods. The proportional counter with c cylindrical pluminum cothode and its circuit diagram is legarihed. The recording power of the counter for 7- and A-ray-vadiction of varying energy is computed according to the known absorption coefficients for this reliation in argon and beryllium (Ref 20), taking into account the a setry of the experimental arrangement. The electronic ci. ... liagram

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807/48-22-7-13/26

Determination of the Ratio L/K in Dy 159 and Er  $^{165}$  and an Estimation of the Transmutation Energies of Dy  $^{159}$  --> To  $^{169}$  and Er  $^{165}$  --> Ho  $^{165}$ 

and the calibration of the device is described. The Dy source was obtained from a tantalum target, which was irradiated in the synchrocyclotron of the "United Institute of Nuclear Research" with 660 MeV protons. The ratio L/K was computed according to formula (3). It is shown that the transition Dy 159 —> Th 159 must be classified as being superforbidden. Marshak's formula was used, giving an energy value of 79+10 keV for this transition. The lowest level of Tb 159 at 57 keV is apparently not excited in the decay of Dy 159. An estimation of the quantity ft on the basic of the decay energy of 70 keV and a half-life of 156 days furnishes a value for 1g ft of about 6,2. According to the classification of King (Ref 32) this value agrees with the assumption, that this transmutation is a superforbidden one. The Er sources were also obtained from tantalum irradiated with fast protons (\$\mathcal{E}\_0 = 660 MeV)\$. The X-ray radiation

Card 3/4

二月的 建酸盐 计模型 经有关系统计

Determination of the Ratio L/K in Dy 159 and Er 165 and an Estimation of the Transmutation Unergies of Dy 159 and Er 165 and Er 165  $\longrightarrow$  10 165

of a series of tantalum targets irradiated for different periods was measured. The ratio I/I<sub>K</sub> (for the intensities of these rediations) was equal to 0,40. From this value for L/K a result of 1.2 ± 0,4 was obtained. Using Marshak's formula and the experimentally found value of L/K (Ur<sup>105</sup>) 82<sup>+10</sup><sub>-5</sub> keV were found for the transmutation energy of the process Or 165 — > No 165. The value of 15 ft was 5,1 with a half-life of 10,5 hours, which is in agreement with the permitted character of the transmutation. There are 3 figures, 1 table, and 35 references, 3 of which are Soviet.

ASSOCIATION: Radiyevyy institut im. V. G. Khlopina Akademii nauk SSSR (Radium Institute imeni V. G. Khlopin, AS USSR)

Card 4/4

BIRYUKOV, Ye.I.; QRIGOR'YEV, Q.I.; KUZNETSOV, B.S.; SHIMLHSKIYA, N.S.

Decay of Hall and Pr 140. Izv.AH SSSR.Ser.fiz. 24 no.9:
(MIRA 13:9)
1135-1144 S 160.
(Fraseodymium-Decay)
(Fraseodymium-Decay)

رزءده

S/048/61/025/001/019/031 B029/B060

24.6720

AUTHORS: Biryukov, Ye. I., Grigor'yev; O. I., Kuznetsov, B. S.,

Shimanskaya, N. S.

TITLE:

Decay of Dy 159

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25,

No. 1, 1961, 109-110

TEXT: The authors studied the electromagnetic radiation of Dy<sup>159</sup>  $(T_{1/2} = 144 \text{ days})$  arising from the irradiation of a tantalum target by

Mev protons by means of a spectrometer with proportional counter and a scintillation gamma spectrometer. The enclosed figure shows the spectrum of the electromagnetic radiation of Dy 159 in the range of 15 to 60 keV, taken with a filter of 130 mg cm<sup>-2</sup> Al. The ratio between intensities of 58-keV gamma radiation and the KX radiation of Dy (44.5; 50.4 keV) is  $I_{\rm KX}/I_{\gamma 58} = 53$ . The contribution of the nonconverted 58-keV gamma radiation amounts to 6.1%, which is also in agreement with the data

Card 1/4

Decay of Dy 159

S/048/61/025/001/019/031 B029/B060

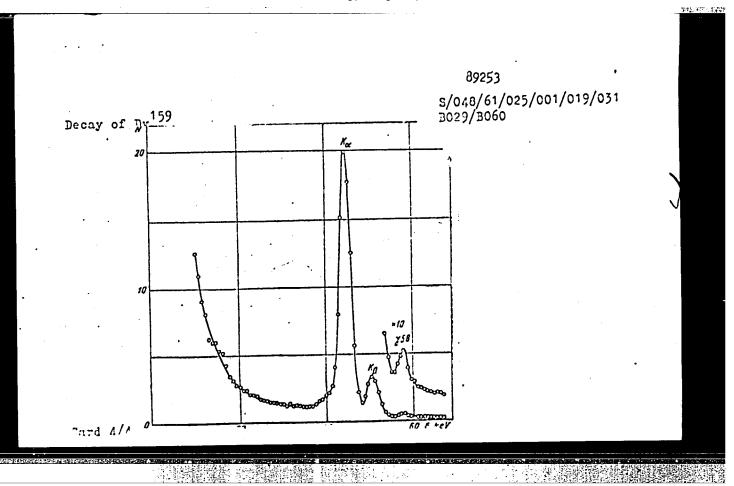
relative to gamma decay of Gd  $^{159}$ . Apart from the  $\gamma58$  line, a weak line with an energy of 350 kev was also observed (Ref. 2). The intensity of this line amounts to  $2.10^{-5}$  quanta per decay event. Shorter wave lines in the energy range up to 2 Mev were no more observed, or at least not any such with an intensity exceeding  $10^{-4}$  to  $10^{-5}$  quanta per decay event. Simultaneous measurements of the two Dy  $^{159}$  sources in the  $4\pi$  scintillation counter and in the  $4\pi$  gas counter gave the following ratios between the intensities of the LX and KX radiation and the intensities of the corresponding LX - LX and KX - KX coincidences:

 $\frac{I_{KX}}{I_{KX-KX}} = 6.56 \pm 0.18, \quad \frac{I_{LX}}{I_{LX-LX}} = 48.1 \pm 4.1, \quad \frac{I_{KX-KX}}{I_{LX-LX}} = 37.1 \pm 5.8, \quad \frac{I_{LX}}{I_{KX}} = 0.21 \pm 0.01.$ 

One may calculate therefrom the ratio  $L_1/K_1$  for the transition to the first excited 58-kev level of  $Tb^{159}$  and the amount  $\mathcal X$  of the bifurcation. If the value  $\overline{\omega}=0.18\pm0.02$  is assumed for the L fluorescence yield of Tb, one obtains  $L_1/K_1=0.58$  and  $\mathcal X=0.32\pm0.08$ . The article under consideration is the reproduction of a lecture delivered at the 10th All-Union Conference on Nuclear Spectroscopy, which took place in Moscow

Card 2/4

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Decay of Dy 159		69253 S/048/61/025/001/019/031 B029/B060	
from January 19 to 27, 1960. references.		lening Akademii nguk SSSR	
ASSOCIATION: Radiyevyy insu (Radium Instit	ute imeni V. G. Kh	ologin, Academy of Sciences	
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Card 3/4			



APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516810

S/077/60/005/003/009/009/xx E073/E535

AUTHORS: Grigor'yev, O.P. and Shur, L.I.

TITLE: Drop Dosator for the Synthesis of Nuclear Emulsion

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1960, Vol.5, No.3, pp. 223-224

TEXT: The best method at present for producing small quantities of photographic emulsions with reproducible properties, and particularly with a given dimensional uniformity of the microthe greatest difficulty is encountered with designing special drop dosators for introducing gelatine into the reacting substances. An experiment is described which is very useful for manufacturing experimental nuclear emulsions (Fig.1). The basic part of the dosing devices 3 for the solutions of AgNO, and KBr are fixed, by are connected to specially designed jets 5 by means of rubber the pressure exerted on the rubber hose by a strip 7 which is

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Drop Dosator for the Synthesis of Nuclear Emulsion

loaded with adjustable weights 8. On the same table the motor of the blade mixer 10 is fixed. The solution flows from the dosators through the perspex jet end-pieces, the shape of which (Fig. 2) is such as to ensure easier tearing away of the drop from the surface as a result of the pressure of the liquid column. By appropriate choice of the diameter of the jets it is possible to obtain any weight ratio of the salt solutions which determine the conditions of producing the emulsion. The operation is as follows: with the cocks closed and pressed down strips the glass dosators fill up with solution. Then, the mobile table is placed above the vessel 11 which is located in the thermostat 12 in such a way that the mixer is covered with molten gelatine. After starting the mixer, the cocks of the dosator are opened and the strips are slightly relieved from pressure so that the drop of the solution is suspended on the jet. Then, by relieving the load the solutions begin to flow down, simultaneously regulating the frequency of the There are 2 figures and 1 French reference.

ASSOCIATION: Radiyevyy institut imeni V. G. Khlopina AN SSSR (Radium Institute imeni V. G. Khlopin AS USSR)

SUBMITTED: December 3, 1959

> APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

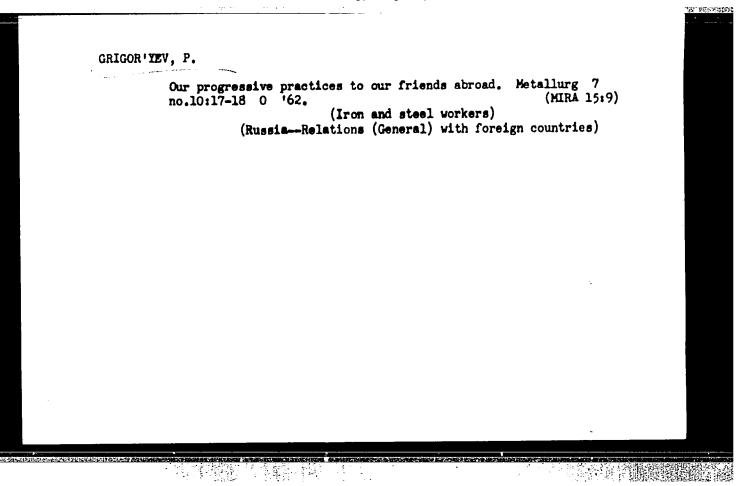
RIGOR'YEV, O. V.

Technology

(Organization of construction and the formation of the state plan for mine surface construction). Moskva, Unletekhizdat, 1951.

Monthly List of Russian Accessions, Library of Congress, Rovember 1952.
Unclassified.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(



GRIGER TENT

107-5-42/54

AUTHOR: Grigor yev. P. (Khabarovsk)

TITLE: Measuring of Resistance of the Moving Coil of a Permanent-Magnet Microanneter

(Izmereniye soprotivleniya ramki magnitoelektricheskogo nikroampermetra)

PERIODICAL: Radio, 1956, Nr5, p. 54 (USSR)

One figure is given.

ABSTRACT: A simple circuit is suggested for amateur measuring of the moving-coil

resistance in which the measuring current is limited by a large series resistor and the microammeter is shunted by an adjustable resistor.

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GRIGOR'YEV, P.

Our country's navy. Voen. znan. 39 no.6:LL-15 Je '63.

(MIRA 16:8)

(Russia-Navy)
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## "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

GRIGOR'YEV, P. (Novosibirsk)

Responsible trainer. Voen. znan. 37 no. 2:32-33 F '61.

(Rifle practice)

(Rifle practice)

26(2); 28(5) PHASE I BOOK EXPLOITATION SOV/2021

Grigor'yev, P.F., Candidate of Technical Sciences

Issledovaniye iznosa detaley aviatsionnogo dvigatelya s
pomoshch'yu radioaktivnykh izotopov (Investigating Wear of
Aircraft-engine Components by Means of Radioactive Isotopes)
Moscow, AN SSSR, 1956. 12p. Errata slip inserted. (Series:
Informatsiya o nauchno-issledovatel'skikh rabotakh. Tema 21,
No. I-56-118) 1,670 copies printed.

Sponsoring Agencies: Akademiya nauk SSSR. Institut nauchnoy i tekhnicheskoy informatsii, filial, and USSR. Gosudarstvennyy komitet po novoy tekhnike.

Chief Ed.: A.N. Udal'tsov; Ed.: V.P. Bryantseva, Engineer.

PURPOSE: This booklet is for mechanical engineers and technicians engaged in engine testing and research on the process of wear in engines.

Card 1/3

Investigating Wear of Aircraft-engine (Cont.) SOV/2021

COVERAGE: In order to obtain continuous measurements of the wear of components of an operating engine, GosNIN GVF (State Scientific Research Institute of the Civil Air Fleet) used radioactive isotopes. The basic attribute of radioactive isotopes as indicators of wear is their property of radiating charged (a or b) particles or gamma rays as they decay. The great advantage of the use of radioactive isotopes is that it permits simultaneous observation of the wear of several components during engine operation. At present, several methods of activation of components are used. The best known are the following: a) plating the surface of a component with radioactive matter by electrolysis (chrome-, indium-, silverplating, etc.); b) introducing radioactive matter into the alloy from which the component to be investigated is made; c) introducing radioactive metal into the surface layers of the component by the diffusion process; d) exposing components to bombardment by elementary particles whereby the material of the component acquires artificial radioactivity. For various reasons, none of these methods is suitable in practice for activation of such components as piston rings, cylinders, and crankshafts of aircraft engines. Therefore, a new method was developed (jointly with P.L. Gruzin)

Card 2/3

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Investigating Wear of Aircraft-engine (Cont.) SOV/2021

which consists of pressing inserts made of radioactive metal into the body of the component. The method developed permits continuous tracing of the dynamics of wear directly in an operating aircraft engine without dismantling it, which no other existing method of wear measurement permits. A short time interval (as low as 10 to 15 hours) is sufficient to permit investigation of the various factors influencing the rate of wear. Such factors include materials of the components, machined finish, operating conditions of the engine, type of lubricant used, etc. The method may also be used as part of a system which indicates automatically when the wear of the most important components of the engine has reached an unacceptable level.

TABLE OF CONTENTS: None given.

AVAILABLE: Library of Congress

IS/rj 7**-**8-59

Card 3/3

GRIGER YEV, P.F

137-58-1-2021

Translation from: Referativnyy zhurnal, Metallurgiya. 1958, Nr 1, p 274, (USSR)

AUTHOR: Grigor'yev, P. F.

TITLE: Study of Wear by Means of Radioactive Isotopes (Izuchenive

iznosa s pomoshch yu radioaktivnykh izotopov)

PERIODICAL: Tr. 1-y nauchno-tekhn. konferentsii. Kiyevsk, in-t grazhd. vozdushn. flota. Moscow, 1956, pp 115-133

ABSTRACT:

Surfaces undergoing wear were rendered radicactive by pressing in inserts of irradiated metals into the portions of the machine that were of interest, or by electrical plating of an irradiated preparation into narrow grooves on the working surface. The kinetics of wear were monitored by means of counters in the oil flow circulating in the main lubricating line. Drawings of an experimental oil line and of devices for installing a B-2 counter are presented. The results of investigation of the time required for iton piston rings to work into the cylinder face of an aircraft engine, the ratio of the wear on a piston ring to the loading thereon and to the initial degree of finish of the chromium-plated cylinder face, and also the effect of dust in the air entering the combustion chamber upon wear are presented. The develop-

Card 1/2

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516810

## "APPROVED FOR RELEASE: Thursday, July 27, 2000

#### CIA-RDP86-00513R00051681

137-58-1-2021

Study of Wear by Means of Radioactive Isotopes

ment of a method of simultaneous observation of wear of two parts by the use of two isotopes is described. Calculation formulas and the results of investigations made by this method are presented.

1. Materials-Wear 2. Radieactive isetepes-Applications

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Card 2/2

SOV/137-57-10-20498

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 302 (USSR)

Grigor'yev, P.F. AUTHOR:

Method for the Evaluation of the Wear of Piston Rings in Aircraft TITLE:

Engines (Metodika otsenki iznosa porshnevykh kolets aviatsionnykh

dvigateley)

PERIODICAL: V sb.: Izuch. iznosa detaley mashin pri pomoshchi radioaktive

izotopov. Moscow, AN SSSR, 1957, pp 39-50

A description of the utilization of radioactive isotopes for quantitative investigation of wear (W) of piston rings (PR) of aircraft ABSTRACT:

engines. In order to activate PR a method was developed for pressfitting of cylindrical inserts 0.8 mm in diam, made of radioactive metal, into the sections being investigated, which also affords an investigation of the dynamics of local W. A method was perfected for the activation of PR by means of electrolytic deposition of a radioactive compound into troughs 1 - 2 mm wide cut into the

working surface of PR. This affords the observation of the W over the whole perimeter of the PR. The latter method can be used for

the installation of W indicators on operating engines. Compounds Card 1/3

SOV/137-57-10-20498

Method for the Evaluation of the Wear of Piston Rings in Aircraft Engines

of Zn65 and Co60 were used for the activation of PR. The author describes the setting up of experiments for the study of the increase in the activity of the oil circulating in an engine system and for obtaining the curves of the W of the rings on the friction machine. It is established that the most precise evaluation of W is obtained when the counter (C) is placed directly into the flow of the lubricating oil because in that case the radiations of all the particles of wear are recorded. This method affords an automatic recording of the curve of the variation in the activity of the oil, which facility is not afforded by the method of drawing test samples. The author develops a plan for a lubricating system with two seriesconnected type AMM-4 counters, wherein one of the C is equipped with a device that permits one to disconnect the section of the oil duct containing the C and flush it during the active operation of the engine. Well reproducible results were obtained upon step-by-step detection and elimination of factors impeding the correct evaluation of the variation in the activity of the oil. The experimental data agree with the results of similar investigations of W obtained by gravimetric and other methods and with W curves constructed according to the Fe content in the oil. To remove the radioactive products from the waste oil a type MSh-4 filter was used, designed by the NIIGVF (Scientific Research Institute of the Civil Air Fleet), with wood sawdust as the filtering material. The author proves in Card 2/3

SOV/137-57-10-20498

Method for the Evaluation of the Wear of Piston Rings in Aircrast Engines

principle the feasibility of the utilization of radioactive isotopes for a precise and rapid evaluation of the filtering capacity of filters.

L. G.

"一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

Card 3/3

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

KYUBLER, O.A., inzh., red.; UFIMTSEV, O.N., inzh., red.; GRIGOR'YEV, P.Q., red.; TCL', A.O., red.; MUNITS, A.P., red.izd-ve; BOROVNEV, N.K., tekhn.red.; SOLNTSEVA, L.M., tekhn.red.

[Unified standards for planning and survey work paid by a piecerate] Edinys normy vyrabotki na prosktnys i izyskatel'skie raboty,
oplachivaemys sdel'no. Moskva, Gos.izd-vo lit-ry po stroit., arkhit.
i stroit.materialam. Pt.2. [Industrial buildings and structures] Promyshlennys zdaniia i sooruzheniia. 1958. 86 p. Pt.4. [Interior sanitary-engineering installations for buildings and structures] Vnutrennic sanitarno-tekhnicheskie ustroistva zdanii i sooruzhenii. 1958.
50 p. Pt.5. [Making estimates] Smetnye raboty. Pt.6. [Blueprinting]
Kopiroval'nye raboty. 1958. 44 p. (MIRA 12:12)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. (Building--Production standards)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

USSR/Chemistry - Miscelluneous

FD-- /30

Card 1/1

Pub. 50 - 19/20

Authors

: Vinogradov, K., Faynshteyn, S. Ya., Yashunskaya, F. I.,

Kreysberg, A. Ya., Grigor'yev, P. I.

Title

: New items.

Periodical

: Khim. prom. No 5, 312-318, Jul-Aug 1955

Abstract

: This section contains news items dealing with a meeting of chiefs of central plant laboratories of enterprises of the Ministry of Chemical Industry USSR, a meeting of technical personnel engaged in the production of DDT, a meeting of workers at the Scientific Research Institute of the Tire Industry, socialistic competition and introduction of improvements in the fixed nitrogen industry, experience of operators at the "Krasnyy Treugol'nik" plant in the continuous production of rubber footwear by the conveyor assembly method, and a conference of readers of "Khimicheskaya Promyshlennost'" at the Molotov State Chemical Plant imeni S. Ordzhonikidze

GRIGOR'YEV, P.I. Brigher Bright Bright St. William St. Practices of A.P.Perevalovaia's group in assembling several models of rubber shoes on a conveyer. Khim.prom.no.5:317 J1-Ag '55. (MLRA 9:1) (Boots and shoes, Rubber) 

